

IM series

Sealed snap-action pushbutton switches •
bushing Ø 12 mm • momentary



DISTINCTIVE FEATURES

Snap-action : tactile feedback with audible click

High current/voltage rating

Sealed to IP67

Flat round actuator for optional marking

NO+NC



ENVIRONMENTAL SPECIFICATIONS

- Front panel sealing : IP67 according to IEC 60529
- Shock resistance : 50 g - 11 ms according to IEC 68-2-27
- Salt spray : IEC 512-6, test 11f
- Operating temperature : -40 °C to +85 °C (-40 °F to +185 °F)
- Storage temperature : -40 °C to +85 °C (-40 °F to +185 °F)



ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load : 3 A 28 VDC
- Initial contact resistance : 100 mΩ max.
- Insulation resistance : 1 GΩ min. at 500 VDC
- Dielectric strength : 500 Vrms between terminals
- Electrical life at full load : 25,000 cycles



GENERAL SPECIFICATIONS

- Panel thickness : 1.5 mm (.059) to 10 mm (.394)
- Total travel : 1.7 mm (.067) ± 0.3 mm
- Low level or mechanical life : 1,000,000 cycles
- Torque (applied to nut) : 1 Nm max. with metal nut U166
1.5 Nm max. with plastic nut U4248



MATERIALS

- Case : polyamide 4/6
- Actuator : polyamide 6/6
- Bushing/bezel : polyamide 6/6
- Contacts : silver, gold plated
- Terminal seal : epoxy

The company reserves the right to change specifications without notice.



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AGENCY APPROVAL

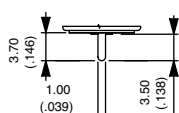


1 A 125 VAC/250 VAC
File E83438

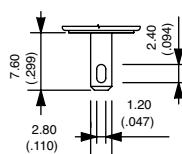
Availability : consult factory for details of approved models.
Marking : to order switches marked UL, complete appropriate box of ordering format.



TERMINALS



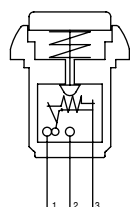
Straight P



Quick-connect Z



ELECTRICAL FUNCTIONS

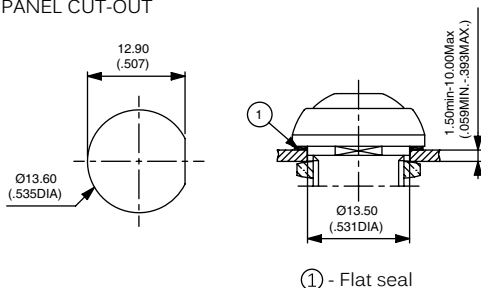


Function 7 (NC+NO)

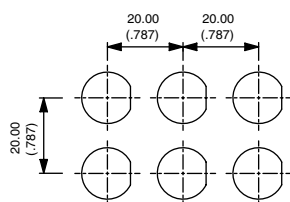


MOUNTING STANDARD BEZEL

PANEL CUT-OUT

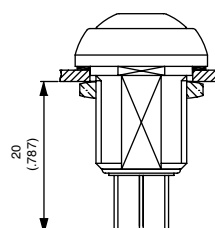


MATRIX MOUNTING



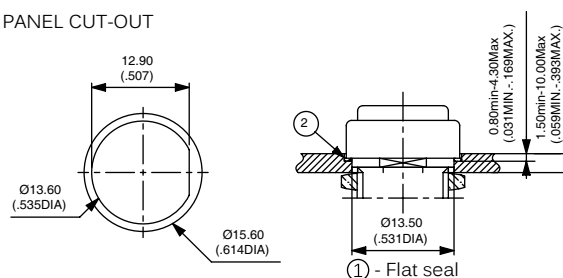
MOUNTING STANDARD BEZEL (CONTINUED)

BACK OF PANEL SPACE REQUIREMENT

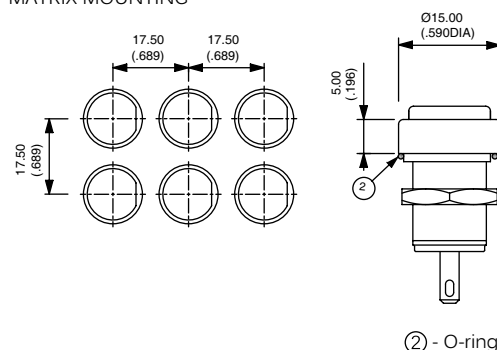


MOUNTING REDUCED BEZEL

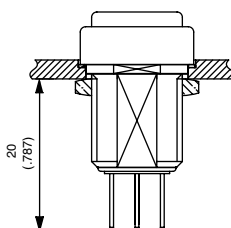
PANEL CUT-OUT



MATRIX MOUNTING



BACK OF PANEL SPACE REQUIREMENT

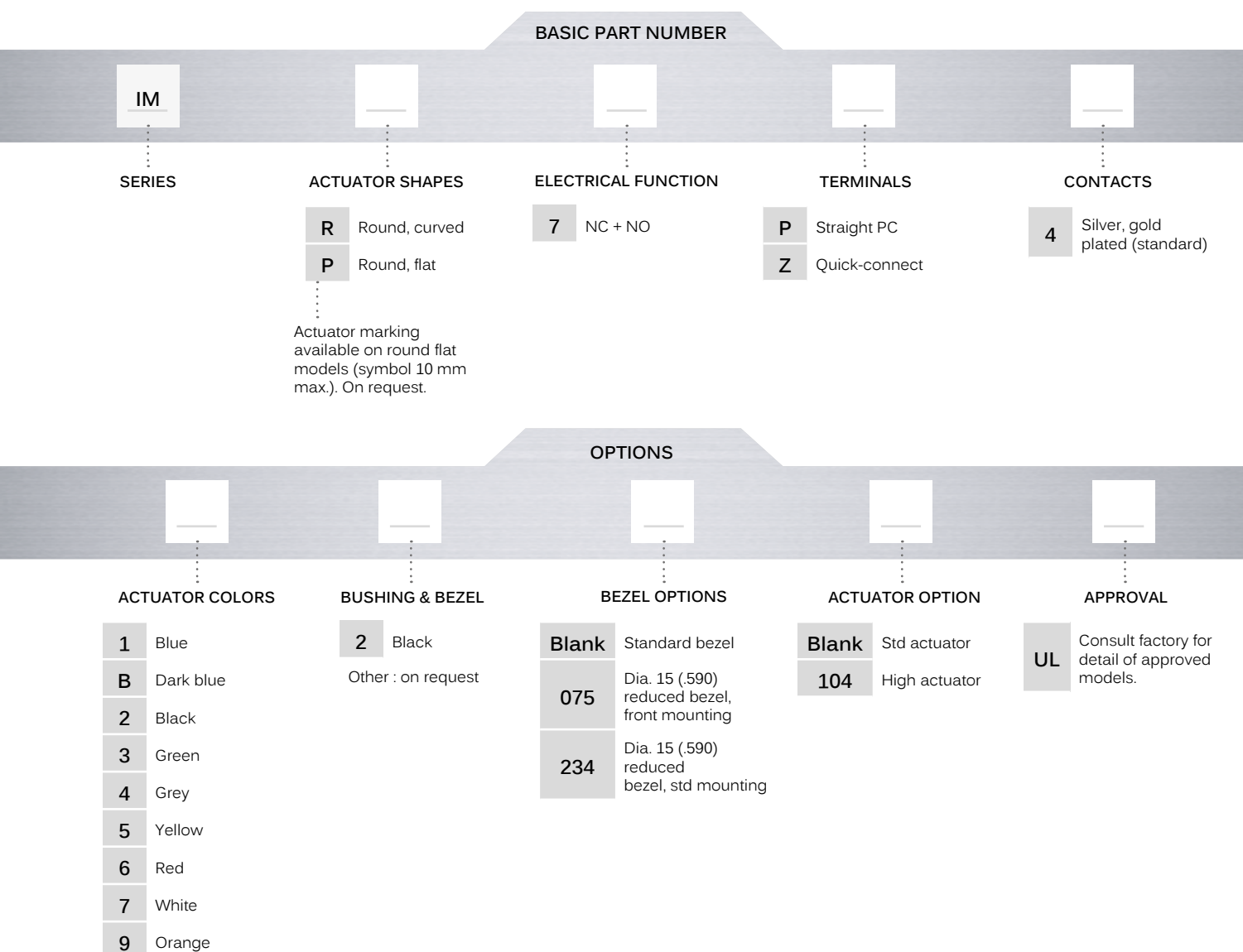


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BUILD YOUR PART NUMBER



ABOUT THIS SERIES

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

- ⚠ **Notice** : please note that not all combinations of above numbers are available. Refer to the following pages for further information.
- 💧 **A sealing boot** is available to protect the switches against frost and sand (P/N U5125). See "Sealing Boots" section of website.
- 🔩 **Mounting accessories** : Standard hardware supplied : 1 flat seal (standard bezel) or 1 O-ring (reduced bezel) and 1 metal hex nut 14 mm (.551) across flats. Hex nut part number U166. Plastic nut 17 mm (.669) across flats, thickness 4 mm (.157) available on request. Part number U4248.

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STANDARD BEZEL STRAIGHT PC TERMINALS



Curved actuator
IMR7P4  NC+NO

Flat actuator
IMP7P4  NC+NO

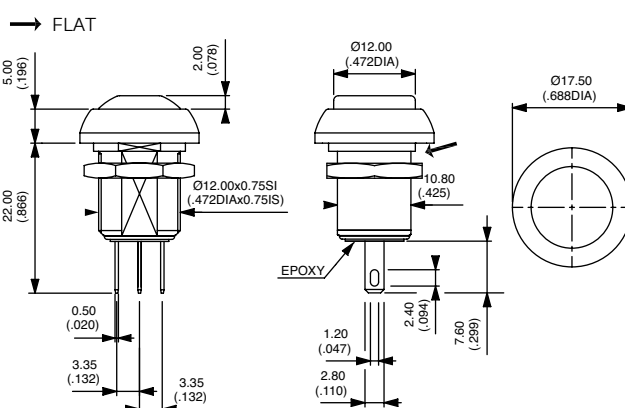
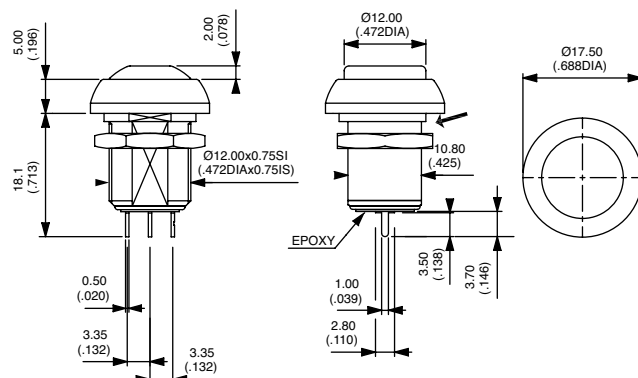
STANDARD BEZEL QUICK-CONNECT TERMINALS



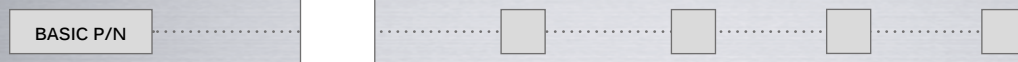
Curved actuator
IMR7Z4  NC+NO

Flat actuator
IMP7Z4  NC+NO

Common terminal identified by a horizontal dash
→ FLAT



ACTUATOR COLORS



- 1 Blue
- B Dark blue
- 2 Black
- 3 Green
- 4 Grey
- 5 Yellow
- 6 Red
- 7 White
- 9 Orange

BUSHING AND BEZEL

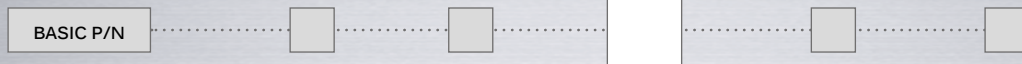


- 2 Black (standard)
- Other : on request

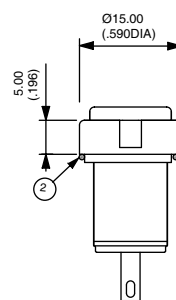
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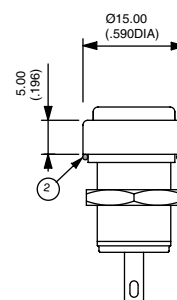
BEZEL OPTIONS



- Blank** Standard bezel
- 075** Dia. 15 (.590) reduced bezel, mounting of the switch from the front into a threaded panel cut-out
- 234** Dia. 15 (.590) reduced bezel, standard mounting

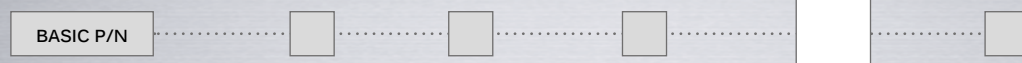


075

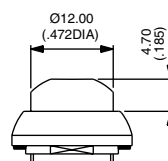


234

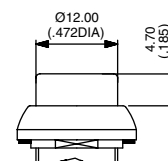
ACTUATOR OPTION



- Blank** Standard actuator
- 104** High actuator



104 IMR



104 IMP

AGENCY APPROVAL



UL

Availability : consult factory for details of approved models.

Marking : to order switches marked UL, complete appropriate box of ordering format.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Apem:](#)

[IMP7P462](#) [IMR7Z452075](#) [IMR7P422075](#) [IMP7P422104](#) [IMR7P412104](#) [IMP7Z452104](#) [IMR7P492075](#)
[IMP7Z462075](#) [IMR7Z412234](#) [IMP7Z492](#) [IMP7Z422](#) [IMP7P462234](#) [IMR7P462104](#) [IMR7P452234](#) [IMR7Z462](#)
[IMP7P432075](#) [IMR7Z492104](#) [IMP7P4B2075](#) [IMR7P432](#) [IMR7P4B2](#) [IMR7Z4B2075](#) [IMP7Z412](#) [IMR7P4B2075](#)
[IMR7Z422104](#) [IMR7P492104](#) [IMR7Z462234](#) [IMR7P422104](#) [IMP7Z472](#) [IMP7Z462104](#) [IMP7P472](#) [IMR7Z462075](#)
[IMP7Z4B2](#) [IMR7P462](#) [IMP7P422234](#) [IMP7P412234](#) [IMR7Z432104](#) [IMP7Z432](#) [IMP7P412](#) [IMR7P472104](#)
[IMR7P432075](#) [IMP7P472234](#) [IMP7Z4B2075](#) [IMR7Z412](#) [IMR7P412](#) [IMR7P452](#) [IMP7Z412075](#) [IMP7Z472075](#)
[IMP7Z4B2234](#) [IMR7Z4B2104](#) [IMR7P462234](#) [IMP7Z462234](#) [IMP7P4B2234](#) [IMR7Z4B2234](#) [IMP7Z432075](#)
[IMP7Z472104](#) [IMR7Z4B2](#) [IMR7Z462104](#) [IMP7P432234](#) [IMR7P452075](#) [IMP7P472075](#) [IMP7Z452234](#) [IMP7P492](#)
[IMR7P4B2104](#) [IMR7Z412075](#) [IMP7Z492075](#) [IMR7Z472075](#) [IMP7P492104](#) [IMP7Z412104](#) [IMR7Z452104](#)
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